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Jun 5, 1987

PUB-NO: FR002590980A1

DOCUMENT-IDENTIFIER: FR 2590980 A1

TITLE: Thermocouple for measuring high temperatures in corrosive media

PUBN-DATE: June 5, 1987

INVENTOR-INFORMATION:

NAME

COUNTRY

BAILLEUL, GILLES

ASSIGNEE-INFORMATION:

NAME

COUNTRY

THERMOCOAX CIE

FR

APPL-NO: FR08517852

APPL-DATE: December 3, 1985

PRIORITY-DATA: FR08517852A (December 3, 1985)

US-CL-CURRENT: 374/179

INT-CL (IPC): G01K 1/10

EUR-CL (EPC): G01K001/10; G01K007/04

ABSTRACT:

Thermocouple for measuring high temperatures, used in a corrosive medium, formed by a junction between two metal wires of different natures embedded in a refractory inorganic insulator, and covered with a protective metal sheath, characterised in that the metal sheath is formed by one or more layers, such that the layer in contact with the inorganic insulator consists of the same metal as one of the two wires forming the junction and such that the layer in contact with the corrosive medium is chosen from those metals whose coefficient of expansion is compatible with that of the other materials with which it is associated and whose mechanical properties are suitable for resisting both the high temperatures and the envisaged corrosive environment.

Application: measuring temperatures greater than 1,200 DEG C in a corrosive medium.



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Term:

thermocouple cable

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<u>L10</u>	L9 and "mineral insulation"	17	<u>L10</u>
<u>L9</u>	thermocouple cable	225	<u>L9</u>
<u>L8</u>	double sheathed cable	7	<u>L8</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
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<u>L6</u>	3297818.pn.	1	<u>L6</u>
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